Authors

Abernethy, Neil F., Julie J. Wu, Micheal Hewett, and Russ B. Altman, "Sophia: A Flexible, Web-Based Knowledge Server," No. 4, July/Aug., pp. 79–85.

Also see Altman, Russ B.

Agha, Gul A. *See* Jamali, Nadeem.

Alberola, Carlos, and George V. Cybenko, "Tracking with Text-Based Messages," No. 4, July/Aug., pp. 70–78.

Allen, James F., "Mixed-Initiative Interaction," No. 5, Sept./Oct., pp. 14–16.

Altman, Russ B., Michael Bada, Xiaoqian J. Chai, Michelle Whirl Carillo, Richard O. Chen, and Neil F. Abernethy, "RiboWeb: An Ontology-Based System for Collaborative Molecular Biology," No. 5, Sept./Oct., pp. 68–76.

Also see Abernethy, Neil F.

Apte, Chidanand, Edna Grossman, Edwin P.D. Pednault, Barry K. Rosen, Fateh A. Tipu, and Brian White, "Probabilistic Estimation-Based Data Mining for Discovering Insurance Risks," No. 6, Nov./Dec., pp. 49–58.

Also see Weiss, Sholom M.

Archibald, Brian T. *See* Yang, Yiming.

Arisha, Khaled A., Thomas Eiter, Sarit Kraus, Fatma Ozcan, Robert Ross, and V.S. Subrahmanian, "Impact: A Platform for Collaborating Agents," No. 2, Mar./Apr., pp. 64–72.

Baclawski, Kenneth. *See* Kokar, Mieczyslaw M.

Bada, Michael. *See* Altman, Russ B.

Bakowska, Fran, "Excellent Idea, Poor Implementation" (review of *Artificial Intelligence Techniques: A Comprehensive Catalogue*), No. 1, Jan./Feb., p. 72.

Baur, Edmond. *See* Hanratty, Timothy.

Beale, Stephen, "Microchip Missionary," No. 4, July/Aug., pp. 2–5.

Benjamins, V. Richard. *See* Chandrasekaran, B.

Bergen, Shani, "MobileGT Drives Us Closer to Smart Cars," No. 5, Sept./Oct., pp. 6–7.

"News Dude: Your Personal News Reporter," No. 3, May/June, p. 2.

Bernard, Douglas, Richard Doyle, Mike Lowry, Pandurang Nayak, Ed Riedel, Nicolas Rouquette, and Jay Wyatt, "Autonomy and Software Technology on NASA's Deep Space One," No. 3, May/June, pp. 10–15.

Bertozzi, Massimo. *See* Broggi, Alberto.

Bradshaw, Jeffrey M., Mark Greaves, Heather Holmback, Wayne Jansen, Tom Karygiannis, Barry G. Silverman, Niranjan Suri, and Alex Wong, "Agents for the Masses?" No. 2, Mar./Apr., pp. 53–63.

Brady, J. Michael. *See* Robertson, Paul.

Broggi, Alberto, Massimo Bertozzi, and Alessandra Fascioli, "ARGO and the MilleMiglia in Automatico Tour," No. 1, Jan./Feb., pp. 55–64.

Brown, Ralf D. *See* Yang, Yiming.

Buro, Michael, "How Machines Have Learned to Play Othello," No. 6, Nov./Dec., pp. 12–14.

Caldwell, Nicholas, "EU Lauches Fifth Framework Program," No. 2, Mar./Apr., pp. 3–4.

Carbonell, Jaime G. *See* Yang, Yiming.

Carillo, Michelle Whirl. *See* Altman, Russ B.

Chai, Xiaoqian J. *See* Altman, Russ B.

Chan, Philip, Wei Fan, Andreas Prodromidis, and Salvatore J. Stolfo, "Distributed Data Mining in Credit Card Fraud Detection," No. 6, Nov./Dec., pp. 67–74.

Chandrasekaran, B., John R. Josephson, and V. Richard Benjamins, "What Are Ontologies, and Why Do We Need Them?" No. 1, Jan./Feb., pp. 20–26.

Chen, Richard O. *See* Altman, Russ B.

Chweh, Crystal, "Interactive Learning: Science and the Internet," No. 3, May/June, pp. 3–4.

"Test Your Virtual Identity," No. 5, Sept./Oct., p. 6.

Clark, David, "Mad Cows, Metathesauri, and Meaning," No. 1, Jan./Feb., pp. 75–77.

"Natural Language, Relevancy Ranking, and Common Sense," No. 4, July/Aug., pp. 17–19.

"Service with a (Smart) Smile: Networks JiniStyle," No. 3, May/June, pp. 81–83.

Coen, Michael H., "The Future of Human-Computer Interaction, or How I Learned to Stop Worrying and Love My Intelligent Room," No. 2, Mar./Apr., pp. 8–10.

Cope, David, "One Approach to Musical Intelligence," No. 3, May/June, pp. 21–25.

Crimmins, Francis, Taoufiq Dkaki, Josiane Mothe, and Alan F. Smeaton, "TétraFusion: Information Discovery on the Internet," No. 4, July/Aug., pp. 55–62.

Cybenko, George V. *See* Alberola, Carlos.

Damerau, Fred J. *See* Weiss, Sholom M.

Das, Madirakshi, R. Manmatha, and Edward M. Riseman, "Indexing Flower Patent Images Using Domain Knowledge," No. 5, Sept./Oct., pp. 24–33.

Davis, Molly, "AI Helps Hunt Down the Bad Guys," No. 4, July/Aug., p. 8.

"USC Works with the US Army to Create Reality," No. 5, Sept./Oct., p. 5.

Dkaki, Taoufiq. *See* Crimmins, Francis.

Doyle, Richard, Melvin Montemerlo, Ichiro Nakatani, Jean-Claude Piedboeuf, and Peter Putz, "An International Forum for Space AI and Robotics," No. 5, Sept./Oct., pp. 8–13.

Also see Bernard, Douglas.

Dumer, John. *See* Hanratty, Timothy.

Elter, Thomas. *See* Arisha, Khaled A.

Eracar, Yonet A. *See* Kokar, Mieczyslaw M.

Famili, Fazel. *See* Létourneau, Sylvain.

Fan, Wei. *See* Chan, Philip.

Farquhar, Adam. *See* Fikes, Richard, and Frank, Gleb.

Fascioli, Alessandra. *See* Broggi, Alberto.

Favela, Jesus, and Victoria Meza, "Image-Retrieval Agent: Integrating Image Content and Text," No. 5, Sept./Oct., pp. 36–39.

Ferrero, Jenny, "Graphical Web Search," No. 3, May/June, p. 3.

Fikes, Richard, and Adam Farquhar, "Distributed Repositories of Highly Expressive Reusable Ontologies," No. 2, Mar./Apr., pp. 73–79.

Also see Frank, Gleb.

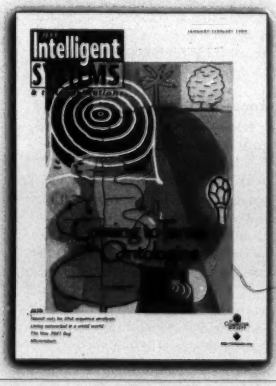
Finin, Tim. *See* Labrou, Yannis.

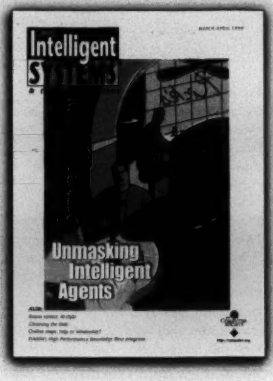
Flachsbart, Joshua. *See* Franklin, David.

Flammia, Giovanni, "Online Maps: Help or Hindrance?" No. 2, Mar./Apr., pp. 6–7.

"The Skinny on Metadata," No. 4, July/Aug., pp. 20–22.

"Weaving a Web of Collaboration: What Will Be the Future of the Internet Interface?"





No. 6, Nov./Dec., pp. 82–83.

Flanagan, James L., "Autodirective Sound Capture: Towards Smarter Conference Rooms," No. 2, Mar./Apr., pp. 16–19.

Forbes, Nancy, "Techno-intelligence," No. 6, Nov./Dec., p. 6.

Frank, Gleb, Adam Farquhar, and Richard Fikes, "Building a Large Knowledge Base from a Structured Source," No. 1, Jan./Feb., pp. 47–54.

Franklin, David, Joshua Flachsbart, and Kristian Hammond, "The Intelligent Classroom," No. 5, Sept./Oct., pp. 2–5.

French, Robert L., "The IEEE and ITS," No. 6, Nov./Dec., pp. 75–77.

Fu, LiMin, "An Expert Network for DNA Sequence Analysis," No. 1, Jan./Feb., pp. 65–71.

Geerts, Guido L., and William E. McCarthy, "An Accounting Object Infrastructure for Knowledge-Based Enterprise Models," No. 4, July/Aug., pp. 89–94.

Goetz, Thilo. *See* Weiss, Sholom M.

Goldman, Robert P. *See* Musliner, David J.

Gómez-Pérez, Asunción. *See* López, Mariano Fernández.

Gorlick, Michael M. *See* Oreizy, Peyman.

Grand, Stephen, "The Year 2001 Bug: Whatever Happened to HAL?" No. 1, Jan./Feb., pp. 73–74.

Greaves, Mark. *See* Bradshaw, Jeffrey M.

Grossman, Edna. *See* Apte, Chidanand.

Grudin, Jonathan, "Has the Ice Man Arrived? Tact on the Internet," No. 1, Jan./Feb., pp. 8–9.

Guarino, Nicola, Claudio Masolo, and Guido Vetere, "OntoSeek: Content-Based Access to the Web," No. 3, May/June, pp. 70–80.

Guinn, Curry I., "Evaluating Mixed-Initiative Dialog," No. 5, Sept./Oct., pp. 21–23.

Hahn, Udo, Stefan Schulz, and Martin Romacker, "Part-Whole Reasoning: A Case Study in Medical Ontology Engineering," No. 5, Sept./Oct., pp. 59–67.

Hammond, Kristian. *See* Franklin, David.

Hampp, Thomas. *See* Weiss, Sholom M.

Hanratty, Timothy, Richard Helfman, John Dumer, Edmond Baur, and Holly Ingham, "Soldier-Centric Knowledge Engineering: Lessons from TED," No. 1, Jan./Feb., pp. 78–80.

Hanson, Robin D., "Decision Markets," No. 3, May/June, pp. 16–19.

Hasha, Richard, "Needed: A Common Distributed-Object Platform," No. 2, Mar./Apr., pp. 14–16.

Hauptmann, Alexander G., "Guest Editor's Introduction: Integrating and Using Large Databases of Text, Images, Video, and Audio," No. 5, Sept./Oct., pp. 34–35.

Also see Jang, Photina Jaeyun.

Hawkins, Robert, "A Useful but Inadequate Resource" (review of *Artificial Intelligence Techniques: A Comprehensive Catalogue*), No. 1, Jan./Feb., pp. 72, 82.

Hayes-Roth, Barbara, Robert van Gent, Rembert Reynolds, M. Vaughan Johnson, and Keith Wescourt, "Web Guides," No. 2, Mar./Apr., pp. 23–27.

Hearst, Marti A., "Building Intelligent Systems One E-Citizen at a Time," No. 3, May/June, p. 16.

"The Changing Relationship between Information Technology and Society," No. 1, Jan./Feb., p. 8.

"Mixed-Initiative Interaction," No. 5, Sept./Oct., pp. 14–16.

"When Information Technology Goes Social," No. 1, Jan./Feb., pp. 10–15.

Hedberg, Sara Reese, "Computers Scoring GMAT Essays? Impossible! Or Is It?" No. 3, May/June, pp. 5–7.

"Data Mining Takes Off at the Speed of the Web," No. 6, Nov./Dec., pp. 35–37.

Heimbigner, Dennis. *See* Oreizy, Peyman.

Helfman, Richard. *See* Hanratty, Timothy.

Hendler, James, "Guest Editor's Introduction: Making Sense out of Agents," No. 2, Mar./Apr., pp. 32–37.

Hendler, James, and Kilian Stoffel, "Back-End Technology for High-Performance Knowledge-Representation Systems," No. 3, May/June, pp. 63–69.

Hewett, Micheal. *See* Abernethy, Neil F.

Hirsh, Haym, "Playing with AI," No. 6, p 8.

"A Quantum Leap for AI," No. 4, July/Aug., p. 9.

"Room Service, AI-Style," No. 2, Mar./Apr., p. 8.

Hogg, Tad, "Quantum Search Heuristics," No. 4, July/Aug., pp. 12–14.

Holmback, Heather. *See* Bradshaw, Jeffrey M.

Hong, Se June. See Waltz, David.

Horvitz, Eric, "Uncertainty, Action, and Interaction: In Pursuit of Mixed–Initiative Computing," No. 5, Sept./Oct., pp. 17–20.

Houghton, Ricky, "Named Faces: Putting Names to Faces," No. 5, Sept./Oct., pp. 45–50.

Ingham, Holly. *See* Hanratty, Timothy.

Jamali, Nadeem, Prasannaa Thati, and Gul A. Agha, "An Actor-Based Architecture for Customizing and Controlling Agent Ensembles," No. 2, Mar./Apr., pp. 38–44.

Jang, Photina Jaeyun, and Alexander G. Hauptmann, "Learning to Recognize Speech by Watching Television," No. 5, Sept./Oct., pp. 51–58.

Jansen, Wayne. *See* Bradshaw, Jeffrey M.

Johnson, David E. *See* Weiss, Sholom M.

Johnson, Gregory. *See* Oreizy, Peyman.

Johnson, M. Vaughan. *See* Hayes-Roth, Barbara.

Josephson, John R. *See* Chandrasekaran, B.

Kak, Subhash, "Better Web Searches and Prediction with Instantaneously Trained Neural Networks," No. 6, Nov./Dec., pp. 78–81.

"Quantum Computing and AI," No. 4, July/Aug., pp. 9–11.

Kaneji, Kengo. *See* Watanabe, Yasuhiko.

Karsai, Gabor, and Janos Sztipanovits, "A Model-Based Approach to Self-Adaptive Software," No. 3, May/June, pp. 46–53.

Karygiannis, Tom. *See* Bradshaw, Jeffrey M.

Kasif, Simon, "Datascope: Mining Biological Sequences," No. 6, Nov./Dec., pp. 38–43.

Khosla, Pradeep K. *See* Voyles, Richard M.

Kokar, Mieczyslaw M., Kenneth Baclawski, and Yonet A. Eracar, "Control Theory-Based Foundations of Self-Controlling Software," No. 3, May/June, pp. 37–45.

Korf, Richard E., "Sliding-Tile Puzzles and Rubik's Cube in AI Research," No. 6, Nov./Dec., pp. 8–12.

Kraus, Sarit. *See* Arisha, Khaled A.

Krebsbach, Kurt D. *See* Musliner, David J.

Krink, Thiemo, and Fritz Vollrath, "Virtual Spiders Guide Robotic Control Design," No. 5, Sept./Oct., pp. 77–84.

Krulwich, Bruce. *See* Rosenschein, Jeffrey S.

Kushmerick, Nicholas, "Gleaning the Web," No. 2, Mar./Apr., pp. 20–22.

Labrou, Yannis, Tim Finin, and Yun Peng, "Agent Communication Languages: The

Current Landscape," No. 2, Mar./Apr., pp. 45–52.

Laddaga, Robert, "Guest Editor's Introduction: Creating Robust Software through Self-Adaptation," No. 3, May/June, pp. 26–29.

Létourneau, Sylvain, Fazel Famili, and Stan Matwin, "Data Mining for Prediction of Aircraft Component Replacement," No. 6, Nov./Dec., pp. 59–66.

Littman, Michael L., "Computers and Language Games," No. 6, Nov./Dec., pp. 16–18.

Liu, Xin. *See* Yang, Yiming.

López, Mariano Fernández, Asunción Gómez-Pérez, Alejandro Pazos Sierra, and Juan Pazos Sierra, "Building a Chemical Ontoloy Using Methontology and the Ontology Design Environment," No. 1, Jan./Feb., pp. 37–46.

Lowry, Mike. *See* Bernard, Douglas.

MacGregor, Robert. *See* Valente, Andre.

Manmatha, R. *See* Das, Madirakshi.

Masolo, Claudio. *See* Guarino, Nicola.

Matwin, Stan. *See* Létourneau, Sylvain.

McCandless, Michael, "Let's Go Shopping," No. 1, Jan./Feb., pp. 2–4.

"The MP3 Revolution," No. 3, May/June, pp. 8–9.

McCarthy, William E. *See* Geerts, Guido L.

Medvidovic, Nenad. *See* Oreizy, Peyman.

Meza, Victoria. *See* Favela, Jesus.

Mladenic, Dunja, "Text-Learning and Related Intelligent Agents: A Survey," No. 4, July/Aug., pp. 44–54.

Montemerlo, Melvin. *See* Doyle, Richard.

Morrow, J. Dan. *See* Voyles, Richard M.

Mothe, Josiane. *See* Crimmins, Francis.

Mozer, Michael C., "An Intelligent Environment Must Be Adaptive," No. 2, Mar./Apr., pp. 11–13.

Musliner, David J., Robert P. Goldman, Michael J. Pelican, and Kurt D. Krebsbach, "Self-Adaptive Software for Hard Real-Time Environments," No. 4, July/Aug., pp. 23–29.

Nakatani, Ichiro. *See* Doyle, Richard.

Nayak, Pandurang. *See* Bernard, Douglas.

Okada, Yoshihiro. *See* Watanabe, Yasuhiko.

Oles, Frank J. *See* Weiss, Sholom M.

Oreizy, Peyman, Michael M. Gorlick, Richard N. Taylor, Dennis Heimbigner, Gregory Johnson, Nenad Medvidovic, Alex Quilici, David S. Rosenblum, and Alexander L. Wolf, "An Architecture-Based Approach to Self-Adaptive Software," No. 3, May/June, pp. 54–62.

Ozcan, Fatma. *See* Arisha, Khaled A.

Pedersen, Jan. *See* Yang, Yiming.

Pednault, Edwin P.D. *See* Apte, Chidanand.

Pelican, Michael J. *See* Musliner, David J.

Peng, Yun. *See* Labrou, Yannis.

Pintetsky-Shapiro, Gregory, "The Data-Mining Industry Coming of Age," No. 6, Nov./Dec., pp. 32–34.

Piedboeuf, Jean-Claude. *See* Doyle, Richard.

Pierce, Thomas. *See* Yang, Yiming.

Price, Dick, "Intelligent Agents Trim Papermaking Costs," No. 2, Mar./Apr., pp. 4–5.

Prodromidis, Andreas. *See* Chan, Philip.

Putz, Peter. *See* Doyle, Richard.

Quilici, Alex. *See* Oreizy, Peyman.

Reynolds, Rembert. *See* Hayes-Roth, Barbara.

Riedel, Ed. *See* Bernard, Douglas.

Riseman, Edward M. *See* Das, Madirakshi.

Robertson, Paul, and J. Michael Brady, "Adaptive Image Analysis for Aerial Surveillance," No. 3, May/June, pp. 30–36.

Romacker, Martin. *See* Hahn, Udo.

Rosen, Barry K. *See* Apte, Chidanand.

Rosenblum, David S. *See* Oreizy, Peyman.

Rosenschein, Jeffrey S., and Bruce Krulwich, "AgentSoft," No. 2, Mar./Apr., pp. 2–3.

Ross, Robert. *See* Arisha, Khaled A.

Rouquette, Nicolas. *See* Bernard, Douglas.

Russ, Thomas. *See* Valente, Andre.

Sakamoto, Yoshitaka. *See* Watanabe, Yasuhiko.

Salzberg, Steven L., "Gene Discovery in DNA Sequences," No. 6, Nov./Dec., pp. 44–48.

Schaeffer, Jonathan, "The Role of Games in Understanding Computational Intelligence," No. 6, Nov./Dec., pp. 10–11.

Schreiner, Keri, "Biometrics: Prospects for Going the Distance," No. 6, Nov./Dec., pp. 2–6.

"HPKBs and Beyond," No. 2, Mar./Apr., pp. 80–81, 84.

"Operation: Microrobot," No. 1, Jan./Feb., pp. 5–7.

"Second Cybercity Opens in Malaysia," No. 4, July/Aug., pp. 5–6.

Schulz, Stefan. *See* Hahn, Udo.

Sheppard, Brian, "Scrabble," No. 6, Nov./Dec., pp. 15–16.

Shoham, Yoav, "What We Talk about When We Talk about Software Agents," No. 2, Mar./Apr., pp. 28–31.

Sierra, Alejandro Pazos. *See* López, Mariano Fernández.

Sierra, Juan Pazos. *See* López, Mariano Fernández.

Silverman, Barry G. *See* Bradshaw, Jeffrey M.

Smeaton, Alan F. *See* Crimmins, Francis.

Sticklen, Jon, "AI Techniques: A Comprehensive Catalogue," No. 1, Jan./Feb., p. 72.

Stoffel, Kilian. *See* Hendler, James.

Stolfo, Salvatore J. *See* Chan, Philip.

Stork, David G., "The Open Mind Initiative," No. 3, May/June, pp. 19–20.

Subrahmanian, V.S. *See* Arisha, Khaled A.

Suri, Niranjan. *See* Bradshaw, Jeffrey M.

Swartout, William, and Austin Tate, "Guest Editors' Introduction: Ontologies," No. 1, Jan./Feb., pp. 18–19.

Also see Valente, Andre.

Sztipanovits, Janos. *See* Karsai, Gabor.

Tate, Austin. *See* Swartout, William.

Taylor, Dennis, "AIBO: AI That Works like a Dog to Entertain You," No. 4, July/Aug., pp. 7–8.

Taylor, Richard N. *See* Oreizy, Peyman.

Thati, Prasannaa. *See* Jamali, Nadeem.

Tipu, Fateh A. *See* Apte, Chidanand.

Valente, Andre, Thomas Russ, Robert MacGregor, and William Swartout, "Building and (Re)Using an Ontology of Air Campaign Planning," No. 1, Jan./Feb., pp. 27–36.

van Gent, Robert. *See* Hayes-Roth, Barbara.

Ventura, Dan, "Quantum Computational Intelligence: Answers and Questions," No. 4, July/Aug., pp. 14–16.

Vetere, Guido. *See* Guarino, Nicola.

Vollrath, Fritz. *See* Krink, Thiemo.

Voyles, Richard M., J. Dan Morrow, and Pradeep K. Khosla, "Gesture-Based Programming for Robotics: Human-Augmented Software Adaptation," No. 6, Nov./Dec., pp. 22–29.

Waltz, David, and Se June Hong, "Data Mining: A Long-Term Dream," No. 6, Nov./Dec., pp. 30–31.

Watanabe, Yasuhiko, Yoshihiro Okada, Kengo Kaneji, and Yoshitaka Sakamoto, "Retrieving Related TV News Reports and Newspaper Articles," No. 5, Sept./Oct., pp. 40–44.

Weiss, Sholom M., Chidanand Apte, Fred J. Damerau, David E. Johnson, Frank J. Oles, Thilo Goetz, and Thomas Hampp, "Maximizing Text-Mining Performance," No. 4, July/Aug., pp. 63–69.

Wellman, Barry, "Living Networked in a Wired World," No. 1, Jan./Feb., pp. 15–17.

Wescourt, Keith. *See* Hayes-Roth, Barbara.

White, Brian. *See* Apte, Chidanand.

Wolf, Alexander L. *See* Oreizy, Peyman.

Wong, Alex. *See* Bradshaw, Jeffrey M.

Wu, Julie J. *See* Abernethy, Neil F.

Wyatt, Jay. *See* Bernard, Douglas.

Yang, Yiming, Jaime G. Carbonell, Ralf D. Brown, Thomas Pierce, Brian T. Archibald, and Xin Liu, "Learning Approaches for Detecting and Tracking News Events," No. 4, July/Aug., pp. 32–43.

Yang, Yiming, and Jan Pedersen, "Guest Editors' Introduction: Intelligent Information Retrieval," No. 4, July/Aug., pp. 30–31.

Articles

Autonomous Agents

"Virtual Spiders Guide Robotic Control Design," Thiemo Krink and Fritz Vollrath, No. 5, Sept./Oct., pp. 77–84.

Data Mining

"Data Mining: A Long-Term Dream," David Waltz and Se June Hong, No. 6, Nov./Dec., pp. 30–31.

"Data Mining for Prediction of Aircraft Component Replacement," Sylvain Létourneau, Fazel Famili, and Stan Matwin, No. 6, Nov./Dec., pp. 59–66.

"Datascope: Mining Biological Sequences," Simon Kasif, No. 6, Nov./Dec., pp. 38–43.

"Distributed Data Mining in Credit Card Fraud Detection," Philip Chan, Wei Fan, Andreas Prodromidis, and Salvatore J. Stolfo, No. 6, Nov./Dec., pp. 67–74.

"Gene Discovery in DNA Sequences," Steven L. Salzberg, No. 6, Nov./Dec., pp. 44–48.

"Probabilistic Estimation-Based Data Mining for Discovering Insurance Risks," Chidanand Apte, Edna Grossman, Edwin P.D. Pednault, Barry K. Rosen, Fateh A. Tipu, and Brian White, No. 6, Nov./Dec., pp. 49–58.

Hybrid Intelligent Systems

"An Expert Network for DNA Sequence Analysis," LiMin Fu, No. 1, Jan./Feb., pp. 65–71.

Information Processing

"Tracking with Text-Based Messages," Carlos Alberola and George V. Cybenko, No. 4, July/Aug., pp. 70–78.

Intelligent Agents

"An Actor-Based Architecture for Customizing and Controlling Agent Ensembles," Nadeem Jamali, Prasannaa Thati, and Gul A. Agha, No. 2, Mar./Apr., pp. 38–44.

"Agent Communication Languages: The Current Landscape," Yannis Labrou, Tim Finin, and Yun Peng, No. 2, Mar./Apr., pp. 45–52.

"Agents for the Masses?" Jeffrey M. Bradshaw, Mark Greaves, Heather Holmback, Wayne Jansen, Tom Karygiannis, Barry G. Silverman, Niranjan Suri, and Alex Wong, No. 2, Mar./Apr., pp. 53–63.

"Guest Editor's Introduction: Making Sense out of Agents," James Hendler, No. 2, Mar./Apr., pp. 32–37.

"Impact: A Platform for Collaborating Agents," Khaled A. Arisha, Thomas Eiter, Sarit Kraus, Fatma Ozcan, Robert Ross, and V.S. Subrahmanian, No. 2, Mar./Apr., pp. 64–72.

Intelligent Information Retrieval

"Guest Editors' Introduction: Intelligent Information Retrieval," Yiming Yang and Jan Pedersen, No. 4, July/Aug., pp. 30–31.

"Indexing Flower Patent Images Using Domain Knowledge," Madirakshi Das, R. Manmatha, and Edward M. Riseman, No. 5, Sept./Oct., pp. 24–33.

"Learning Approaches for Detecting and Tracking News Events," Yiming Yang, Jaime G. Carbonell, Ralf D. Brown, Thomas Pierce, Brian T. Archibald, and Xin Liu, No. 4, July/Aug., pp. 32–43.

"Maximizing Text-Mining Performance," Sholom M. Weiss, Chidanand Apte, Fred J. Damerau, David E. Johnson, Frank J. Oles, Thilo Goetz, and Thomas Hampp, No. 4, July/Aug., pp. 63–69.

"TétraFusion: Information Discovery on the Internet," Francis Crimmins, Taoufiq Dkaki, Josiane Mothe, and Alan F. Smeaton, No. 4, July/Aug., pp. 55–62.

"Text-Learning and Related Intelligent Agents: A Survey," Dunja Mladenic, No. 4, July/Aug., pp. 44–54.

Ontologies

"Back-End Technology for High-Performance Knowledge-Representation Systems," James Hendler and Kilian Stoffel, No. 3, May/June, pp. 63–69.

"Building a Chemical Ontoloy Using Methontology and the Ontology Design Environment," Mariano Fernández López, Asunción Gómez-Pérez, Alejandro Pazos Sierra, and Juan Pazos Sierra, No. 1, Jan./Feb., pp. 37–46.

"Building a Large Knowledge Base from a Structured Source," Gleb Frank, Adam Farquhar, and Richard Fikes, No. 1, Jan./Feb., pp. 47–54.

"Building and (Re)Using an Ontology of Air Campaign Planning," Andre Valente, Thomas Russ, Robert MacGregor, and William Swartout, No. 1, Jan./Feb., pp. 27–36.

"Distributed Repositories of Highly Expressive Reusable Ontologies," Richard Fikes and Adam Farquhar, No. 2, Mar./Apr., pp. 73–79.

"Guest Editors' Introduction: Ontologies," William Swartout and Austin Tate, No. 1, Jan./Feb., pp. 18–19.

"OntoSeek: Content-Based Access to the Web," Nicola Guarino, Claudio Masolo, and Guido Vetere, No. 3, May/June, pp. 70–80.

"Part-Whole Reasoning: A Case Study in Medical Ontology Engineering," Udo Hahn, Stefan Schulz, and Martin Romacker, No. 5, Sept./Oct., pp. 59–67.

"RiboWeb: An Ontology-Based System for Collaborative Molecular Biology," Russ B. Altman, Michael Bada, Xiaoqian J. Chai, Michelle Whirl Carillo, Richard O. Chen,

and Neil F. Abernethy, No. 5, Sept./Oct., pp. 68–76.

"Sophia: A Flexible, Web-Based Knowledge Server," Neil F. Abernethy, Julie J. Wu, Micheal Hewett, and Russ B. Altman, No. 4, July/Aug., pp. 79–85.

"What Are Ontologies, and Why Do We Need Them?" B. Chandrasekaran, John R. Josephson, and V. Richard Benjamins, No. 1, Jan./Feb., pp. 20–26.

Self-Adaptive Software

"Adaptive Image Analysis for Aerial Surveillance," Paul Robertson and J. Michael Brady, No. 3, May/June, pp. 30–36.

"An Architecture-Based Approach to Self-Adaptive Software," Peyman Oreizy, Michael M. Gorlick, Richard N. Taylor, Dennis Heimbigner, Gregory Johnson, Nenad Medvidovic, Alex Quilici, David S. Rosenblum, and Alexander L. Wolf, No. 3, May/June, pp. 54–62.

"Control Theory-Based Foundations of Self-Controlling Software," Mieczyslaw M. Kokar, Kenneth Baclawski, and Yonet A. Eracar, No. 3, May/June, pp. 37–45.

"Gesture-Based Programming for Robotics: Human-Augmented Software Adaptation," Richard M. Voyles, J. Dan Morrow, and Pradeep K. Khosla, No. 6, Nov./Dec., pp. 22–29.

"Guest Editor's Introduction: Creating Robust Software through Self-Adaptation," Robert Laddaga, No. 3, May/June, pp. 26–29.

"A Model-Based Approach to Self-Adaptive Software," Gabor Karsai and Janos Sztipanovits, No. 3, May/June, pp. 46–53.

"Self-Adaptive Software for Hard Real-Time Environments," David J. Musliner, Robert P. Goldman, Michael J. Pelican, and Kurt D. Krebsbach, No. 4, July/Aug., pp. 23–29.

TIVA

"Guest Editor's Introduction: Integrating and Using Large Databases of Text, Images, Video, and Audio," Alexander G. Hauptmann, No. 5, Sept./Oct., pp. 34–35.

"Learning to Recognize Speech by Watching Television," Photina Jaeyun Jang and Alexander G. Hauptmann, No. 5, Sept./Oct., pp. 51–58.

"Named Faces: Putting Names to Faces," Ricky Houghton, No. 5, Sept./Oct., pp. 45–50.

Vision-Based Vehicle Guidance

"ARGO and the MilleMiglia in Automatico Tour," Alberto Broggi, Massimo Bertozzi, and Alessandra Fascioli, No. 1, Jan./Feb., pp. 55–64.

Departments

Agents Applications

"Web Guides," Barbara Hayes-Roth, Robert van Gent, Rembert Reynolds, M. Vaughan Johnson, and Keith Wescourt, No. 2, Mar./Apr., pp. 23–27.

AI in Space

"Autonomy and Software Technology on NASA's Deep Space One," Douglas Bernard, Richard Doyle, Mike Lowry, Pandurang Nayak, Ed Riedel, Nicolas Rouquette, and Jay Wyatt, No. 3, May/June, pp. 10–15.

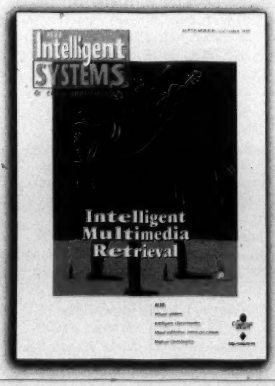
"An International Forum for Space AI and Robotics," Richard Doyle, Melvin Montemerlo, Ichiro Nakatani, Jean-Claude Piedboeuf, and Peter Putz, No. 5, Sept./Oct., pp. 8–13.

Book Reviews

"AI Techniques: A Comprehensive Catalogue," Jon Sticklen, No. 1, Jan./Feb., p. 72.

"Excellent Idea, Poor Implementation" (review of *Artificial Intelligence Techniques: A Comprehensive Catalogue*), Fran Bakowska, No. 1, Jan./Feb., p. 72.

"A Useful but Inadequate Resource" (review of *Artificial Intelligence Techniques: A Comprehensive Catalogue*), Robert Hawkins, No. 1, Jan./Feb., pp. 72, 82.



Executive Insight

"Computers Scoring GMAT Essays? Impossible! Or Is It?" Sara Reese Hedberg, No. 3, May/June, pp. 5–7.

"Data Mining Takes Off at the Speed of the Web," Sara Reese Hedberg, No. 6, Nov./Dec., pp. 35–37.

Expert Opinion

"An Accounting Object Infrastructure for Knowledge-Based Enterprise Models," Guido L. Geerts and William E. McCarthy, No. 4, July/Aug., pp. 89–94.

"The Data-Mining Industry Coming of Age," Gregory Piatetsky-Shapiro, No. 6, Nov./Dec., pp. 32–34.

"What We Talk about When We Talk about Software Agents," Yoav Shoham, No. 2, Mar./Apr., pp. 28–31.

Focus

"HPKBs and Beyond," Keri Schreiner, No. 2, Mar./Apr., pp. 80–81, 84.

"Natural Language, Relevancy Ranking, and Common Sense," David Clark, No. 4, July/Aug., pp. 17–19.

"Operation: Microrobot," Keri Schreiner, No. 1, Jan./Feb., pp. 5–7.

"Service with a (Smart) Smile: Networks Jini-Style," David Clark, No. 3, May/June, pp. 81–83.

Intelligencer

"AgentSoft," Jeffrey S. Rosenschein and Bruce Krulwich, No. 2, Mar./Apr., pp. 2–3.

"AI Helps Hunt Down the Bad Guys," Molly Davis, No. 4, July/Aug., p. 8.

"AIBO: AI That Works like a Dog to Entertain You," Dennis Taylor, No. 4, July/Aug., pp. 7–8.

"Biometrics: Prospects for Going the Distance," Keri Schreiner, No. 6, Nov./Dec., pp. 2–6.

"EU Lauches Fifth Framework Program," Nicholas Caldwell, No. 2, Mar./Apr., pp. 3–4.

"Graphical Web Search," Jenny Ferrero, No. 3, May/June, p. 3.

"The Intelligent Classroom," David Franklin, Joshua Flachsbart, and Kristian Hammond, No. 5, Sept./Oct., pp. 2–5.

"Intelligent Agents Trim Papermaking Costs," Dick Price, No. 2, Mar./Apr., pp. 4–5.

"Interactive Learning: Science and the Internet," Crystal Chweh, No. 3, May/June, pp. 3–4.

"Microchip Missionary," Stephen Beale, No.